

1068-68-70

Isom Jurayev* (ijurayev@yahoo.com), 10021 Whitemark Lane, Cary, NC 27511. *New efficient searching and sorting algorithms.* Preliminary report.

New efficient algorithm generated for searching the number a among ordered numbers $a_i, i = 1, 2, \dots, n < \infty$. At $a_i - a_{i-1} = const$ a problem of searching is solved immediately. Also new efficient sorting algorithm of numbers $a_i, i = 1, 2, \dots, n < \infty$ requiring $O(n)$ operations is created . The proposed algorithms are tested in the IDE Borland Turbo C + + Explorer Edition for Windows. The numerical results confirm the simplicity and effectiveness of the proposed searching and sorting algorithms. (Received January 11, 2011)